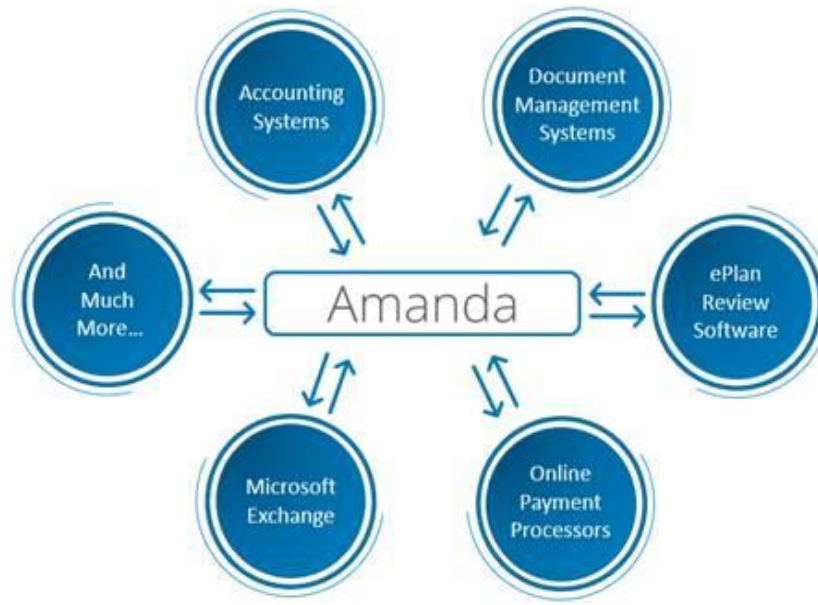


Municipality of Clarington – Amanda Integrations

A benefit of implementing Amanda into your technology ecosystem is that the platform is built to have robust integration capabilities. As an enterprise solution, Amanda will integrate with existing as well as future technologies within the Municipality.

Amanda provides an extensive set of mechanisms and APIs to allow flexible and easy integration with any third-party system, application or service regardless of their implementation technology.

- Amanda is designed with **plug and play architecture** that includes custom adaptors for many popular applications:
 - User Authentication (LDAP, Active Directory, etc.)
 - Electronic Document Management Systems (Laserfiche, FileNet, SharePoint, Alfresco, etc.)
 - Financials (Oracle, SAP, JDEdwards, etc.)
 - Geographic Information Systems (ESRI, ArcGIS, etc.)
 - Reporting (Crystal Reports, Oracle, Business Objects, SSRS, etc.)
 - Calendars (Office 365/Outlook, Microsoft Exchange, Google, etc.)
- **Web Services** – A SOAP and REST API that enables external systems to connect to Amanda.
- **Batch Scheduler** – Event or time-driven module that allows for automated transfer of information. Supports transfer of single or bulk records via many common protocols.
- **Enterprise Application Integration (EAI)** Amanda EAI is a comprehensive integration solution that enables bi-directional information exchange with a third-party application, service or system. The EAI adaptor has a highly extensible architecture. Out-of-the-box it provides support for multiple communication protocols (HTTP/S, FTP, SMTP), offers flexible message format (XML, delimited file, etc.), push/pull initiation, event and time driven operation as well as synchronous and asynchronous data exchange.
- **Pre-Built Adaptors** for existing commercial and open-source applications



Vision33 will leverage the adapters, webservices and batch components for the integrations between the stated Municipality systems and Amanda. These have been scoped as part of the RFP response, budget and deliverables. Vision33 will confirm these integration specifics during project discovery with the Municipality.

For the **Dynamics Great Plains (GP) 2018 Financial System**, Amanda will utilize a blended approach for transactions.

- When real-time exchange is required, Vision33 will leverage Amanda’s built-in Web Services and extendable Enterprise Application Integration (EAI). Great Plains Power Apps built-in data connectors for web services will allow for the two systems to operate efficiently and securely.
- For larger data sets, that typically occur monthly, Amanda will post monthly revenue allocations via Batch Scheduler and API data exchange into Great Plains. This can be reconciled and posted to GL and cost centers shared from Amanda. The time-period (monthly) will be based on the Municipality’s requirements.

Reconciliation and reporting can occur in each system independently or as a consolidated effort using built-in reporting tools.